

## STATEMENT OF BASIS

as required by LAC 33:IX.3109, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0038351; AI 33769; PER20080001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality  
Office of Environmental Services  
P. O. Box 4313  
Baton Rouge, Louisiana 70821-4313

- I. THE APPLICANT IS:** West Ouachita Industrial District  
West Ouachita Industrial Park S.T.P  
P.O. Box 35888  
West Monroe, LA 71294
- II. PREPARED BY:** Rachel Davis
- DATE PREPARED:** December 18, 2008
- III. PERMIT ACTION:** reissue LPDES permit LA0038351, AI 33769; PER20080001
- LPDES application received: October 29, 2008
- EPA has not retained enforcement authority.
- LPDES permit issued: May 1, 2004  
LPDES permit expired: April 30, 2009
- IV. FACILITY INFORMATION:**
- A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the West Ouachita Industrial Park.
- B. The permit application does indicate the receipt of industrial wastewater. The industrial dischargers include:
- | <u>Name of Discharger</u>              | <u>Flow</u> |
|----------------------------------------|-------------|
| Billhorn Board & Paper, LLC            | 2,310 GPD   |
| Southern Apparatus Service             | 4,735 GPD   |
| Bayou Plastics                         | 635 GPD     |
| Frito-Lay, Inc                         | 95 GPD      |
| Dixie Bonded Warehouse                 | 140 GPD     |
| Aikens Fabrications, Inc               | 65 GPD      |
| Roger Manufacturing Corp               | 1,465 GPD   |
| Gilley Enterprises                     | 2,250 GPD   |
| West Monroe Marble                     | 3,985 GPD   |
| Eclipse Gold Orange Juice Packinghouse | 145 GPD     |
| Louisiana Technical College            | 1,660 GPD   |
| Transport USA                          | 58 GPD      |
| Sabre Machining                        | 103 GPD     |
| Superlife Suspension Systems           | 1,080 GPD   |
| Metal Forms, Inc                       | 1,115 GPD   |
| Stealth 4x4 Manufacturing              | 875 GPD     |
| Mechanical Systems & Service, Inc      | 555 GPD     |
| Monroe Packaging                       | 590 GPD     |
| Estis Compression                      | 260 GPD     |
| VIP Enterprises, Inc                   | 225 GPD     |

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- C. The facility is located at 301 Huey Lenard Loop Road in West Monroe, Ouachita Parish.
- D. The treatment facility consists of a 50,000 GPD package treatment plant with a flow equalization tank, sludge holding tank, aeration chamber, clarifier chamber and tertiary filter system
- E. Outfall 001

Discharge Location: Latitude 32° 30' 13" North  
Longitude 92° 17' 5" West

Description: treated sanitary wastewater

Designed Flow: 0.150 MGD

Type of Flow Measurement which the facility is currently using:  
Totalizing Meter

#### V. RECEIVING WATERS:

The discharge is into a parish drainage ditch, thence into North Cheniere Creek, thence into Cheniere Lake, thence into the Ouachita River in segment 080802 of the Ouachita River Basin. This segment is listed on the 303(d) list of impaired waterbodies.

The designated uses and degree of support for Segment 080802 of the Ouachita River Basin are as indicated in the table below<sup>1/</sup>:

Degree of Support of Each Use						
Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
Full	Full	Not Supported	N/A	N/A	N/A	N/A

<sup>1/</sup>The designated uses and degree of support for Segment 080802 of the Ouachita River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

#### VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 080802 of the Ouachita River Basin, is listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated November 24, 2008 from Rieck (FWS) to Nolan (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

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**VII. HISTORIC SITES:**

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

**VIII. PUBLIC NOTICE:**

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Rachel Davis  
Water Permits Division  
Department of Environmental Quality  
Office of Environmental Services  
P. O. Box 4313  
Baton Rouge, Louisiana 70821-4313

**IX. PROPOSED PERMIT LIMITS:****Final Effluent Limits:**

Subsegment 080802, Cheniere Brake Lake, is listed on LDEQ's Final 2006 303(d) List as impaired for mercury and dissolved oxygen (Category 5- EPA). To date no TMDL's have been completed for this waterbody. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by a TMDL. Until completion of TMDLs for the Ouachita River Basin, those suspected causes for impairment which are not directly attributed to the sanitary wastewater point source category have been eliminated in the formulation of effluent limitations and other requirements of this permit. Additionally, suspected causes of impairment which could be attributed to pollutants which were not determined to be discharged at a level which would cause, have the reasonable potential to cause or contribute to an excursion above any present state water quality standard were also eliminated.

**Dissolved Oxygen**

To protect against the potential for oxygen consuming pollutants that could cause instream DO problems, CBOD<sub>5</sub> and ammonia limitations have been established in the permit.

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**Mercury**

Based on the size and nature of the facility, the department believes there is little potential for the discharge to cause or contribute to the mercury impairment of this subsegment. Therefore, no limitations for mercury will be required of this facility.

**OUTFALL 001**

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
CBOD <sub>5</sub>	13	10 mg/l	15 mg/l	Limits are set in accordance with the previous permit which was based on the Ouachita River Basin Plan for facilities of this treatment type and size.
TSS	19	15 mg/l	23 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen	6	5 mg/l	10 mg/l	Limits are set in accordance with the previous permit which was based on the Ouachita River Basin Plan for facilities of this treatment type and size.
Oil and Grease		---	15 mg/l	Limits are set due to the nature of the contributing industries and the compliance history of the facility

\*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD<sub>5</sub> and TSS in terms of concentration.

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Effluent Characteristic	Monthly Avg. (lbs./day)	Daily Maximum (lbs/day)	Basis
Total Copper	0.0042	0.010	Water Quality Based Limit. (See appendix B-1 for further information)

As per LAC 33:IX.2707.L.2.a.ii, availability of information which was not available at the time of previous permit issuance and will justify the application of less stringent effluent limitations in the proposed permit constitutes an exception to LAC 33:IX.2707.L.1, which states when a permit is renewed or reissued standards or conditions must be at least as stringent as the final limitations, standards, or conditions in the previous permit. In the previous permit, this treatment facility was required to meet effluent limitations for total zinc of 0.0585 lbs/day monthly average and 0.01389 lbs/day daily maximum. A water quality screen was performed using data from the application and from DMRs from January 2007 through October 2008. The screen did not indicate a need for a limitation for total zinc. Therefore, the limitation for total zinc has been removed from this permit. See Appendix B-1 for more information.

**Other Effluent Limitations:****1) Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5., the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

**2) pH**

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

**3) Solids and Foam**

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

**X. PREVIOUS PERMITS:**

LPDES Permit No. LA0038351: Issued: May 1, 2004  
Expired: April 30, 2009

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	Monthly Avg.	Weekly Avg.	Measurement Frequency	Sample Type
Flow	Report	Report	Continuous	Recorder
CBOD <sub>5</sub>	10 mg/l	15 mg/l	2/month	Grab
TSS	15 mg/l	23 mg/l	2/month	Grab
Ammonia-Nitrogen	5 mg/l	10 mg/l	2/month	Grab
Fecal Coliform Colonies	200	400	2/month	Grab

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**XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:****A) Inspections**

A review of the files indicates the following inspections were performed during the period beginning **January 2007** and ending **October 2008** for this facility.

Date: January 22, 2008

Inspector: John Posey

Findings and/or Violations:

1. All four paddle wheel motors were inoperable
2. All the DMR's had been submitted
3. Effluent appeared bright blue at the outfall and blue in the pond
4. Fecal coliform sample taken at the time of the inspection and resulted in 33,000 col/100 mg/l

**B) Compliance and/or Administrative Orders**

A review of the files indicates that no administrative orders have been issued against the facility.

**C) DMR Review**

A review of the discharge monitoring reports for the period beginning **January 2007** through **October 2008** has revealed the following violations:

Parameter	Outfall	Period of Excursion	Permit Limit	Reported Quantity
TSS	001	January 2007	15 mg/l	81.6 mg/l
TSS	001	January 2007	23 mg/l	107 mg/l
Ammonia	001	February 2007	5 mg/l	9.65 mg/l
Ammonia	001	February 2007	10 mg/l	19.3 mg/l
TSS	001	February 2007	15 mg/l	42.5 mg/l
TSS	001	February 2007	23 mg/l	57 mg/l
TSS	001	March 2007	15 mg/l	17.3 mg/l
TSS	001	March 2007	23 mg/l	24.5 mg/l
TSS	001	April 2007	15 mg/l	36.6 mg/l
TSS	001	April 2007	23 mg/l	51 mg/l
Fecal	001	May 2007	200	255
Fecal	001	May 2007	400	480
TSS	001	July 2007	15 mg/l	24.8 mg/l
TSS	001	July 2007	23 mg/l	42 mg/l
TSS	001	August 2007	23 mg/l	28 mg/l
Fecal	001	September 2007	400	630
CBOD	001	November 2007	15 mg/l	41.3 mg/l
CBOD	001	December 2007	10 mg/l	39.1 mg/l
CBOD	001	December 2007	15 mg/l	74.7 mg/l
TSS	001	December 2007	15 mg/l	15.2 mg/l
TSS	001	December 2007	23 mg/l	28 mg/l
CBOD	001	January 2008	10 mg/l	27.8 mg/l
CBOD	001	January 2008	15 mg/l	54.7 mg/l
TSS	001	January 2008	15 mg/l	24.9 mg/l
TSS	001	January 2008	23 mg/l	36.7 mg/l
Ammonia	001	January 2008	5 mg/l	7.26 mg/l

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Ammonia	001	January 2008	10 mg/l	12.8 mg/l
Ammonia	001	February 2008	5 mg/l	12.6 mg/l
Ammonia	001	February 2008	10 mg/l	19.8 mg/l
CBOD	001	March 2008	10 mg/l	12.9 mg/l
CBOD	001	March 2008	15 mg/l	23.1 mg/l
TSS	001	March 2008	15 mg/l	23.6 mg/l
TSS	001	March 2008	23 mg/l	40 mg/l
Ammonia	001	March 2008	5 mg/l	7.6 mg/l
Ammonia	001	March 2008	10 mg/l	19.3 mg/l
TSS	001	April 2008	15 mg/l	25.9 mg/l
TSS	001	April 2008	23 mg/l	31.7 mg/l
TSS	001	May 2008	15 mg/l	22 mg/l
TSS	001	May 2008	23 mg/l	32 mg/l
Ammonia	001	June 2008	5 mg/l	5.82 mg/l
CBOD	001	September 2008	10 mg/l	11.4 mg/l
CBOD	001	September 2008	15 mg/l	18.5 mg/l
Ammonia	001	September 2008	5 mg/l	5.2 mg/l
Ammonia	001	September 2008	10 mg/l	10.5 mg/l

**XII. ADDITIONAL INFORMATION:**

The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

- a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
- b) Controls any pollutant not limited in the permit; or
- c) Requires reassessment due to change in 303(d) status of waterbody; or
- d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of .150 MGD.

Effluent loadings are calculated using the following example:

$$\text{BOD: } 8.34 \text{ lb/gal} \times 0.150 \text{ MGD} \times 10 \text{ mg/l} = 13 \text{ lb/day}$$

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in

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the permit are standard for facilities of flows between 0.1 and 0.5 MGD.

Effluent CharacteristicsMonitoring Requirements

	<u>Measurement</u>	<u>Sample</u>
	<u>Frequency</u>	<u>Type</u>
Flow	Continuous	Recorder
CBOD <sub>5</sub>	2/month	Grab
Total Suspended Solids	2/month	Grab
Ammonia-Nitrogen	2/month	Grab
Fecal Coliform Bacteria	2/month	Grab
pH	2/month	Grab

Pretreatment Requirements

Due to the absence of pretreatment categorical standards for the indirect discharges listed above or the discharge is of sanitary wastewater only, it is recommended that LDEQ Option 1 Pretreatment Language be included in LPDES Permit LA0038351.

This language is established for municipalities that do not have either an approved or required Pretreatment program. This recommendation is in accordance with 40 CFR Part 403 regulations, the General Pretreatment Regulations for Existing and New Sources of Pollution contained in LAC Title 33, Part IX, Chapter 61 and the Best Professional Judgement (BPJ) of the reviewer

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

<b>Audit Period Begins</b>	<b>Audit Period Ends</b>	<b>Audit Report Completion Date</b>
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

**XIII. TENTATIVE DETERMINATION:**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

**XIV. REFERENCES:**

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations,



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Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, West Ouachita Industrial District, West Ouachita Industrial Park S.T.P, October 29, 2008.